EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S44	1	(extend$4 insert$4 add$4) with class with software same (JIT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 10:57
S46	68	class near3 extension same processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:24
S49	146	extended near3 software same processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:25
S50	9	extended near3 software same processor same class	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:30
S53	2	core adj class adj definition same compil$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:32
S56	141	class near4 extension same compil$4 and processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:33
S57	4	class near4 extension same compil$4 same processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:37
S58	79	(build$4 construct$4) same (compiler) same class same exten$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:50

S60	11	(build$4 construct$4 generat$4 creat$4 develop$4) with compiler same extend$4 with (object adj class)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 15:05
S61	6	adding same extension same fields same class same definition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 16:21

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	23	(exten$5) with software same compil$4.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:32
L2	12	(exten$5) with software same compil$4.clm.	US-PGPUB	OR	ON	2007/04/26 17:32
L3	31	(exten$5) with class with software.clm.	US-PGPUB	OR	ON	2007/04/26 17:34
L4	1	(exten$5) with class with software same compiler.clm.	US-PGPUB	OR	ON	2007/04/26 17:35
L5	2	configurat$4 with exten$4 with software same (generat$4 produc$4 construct$4) with extend$4 with software.clm.	US-PGPUB	OR	ON	2007/04/26 17:37
L7	8	extend$4 with version with software.clm.	US-PGPUB	OR	ON	2007/04/26 17:37
L9	2	adding same extension same class same definition.clm.	US-PGPUB	OR	ON	2007/04/26 17:38
L13	10	(build$4 construct$4 generat$4 creat$4 develop$4) same compiler same extend$4.clm.	US-PGPUB	OR	ON	2007/04/26 17:39
L15	3	class adj definition same compil$4.clm.	US-PGPUB	OR	ON	2007/04/26 17:40
L16	11	(generat$4 creat$4) with software with development with specification.clm.	US-PGPUB	OR	ON	2007/04/26 17:42
L17	1	(object adj description adj language) same pre$processor same (header adj file).clm.	US-PGPUB	OR	ON	2007/04/26 17:43
L18	2	(object adj description adj language) same pre$processor same (header adj file) and ("717"/$.ccls.)	US-PGPUB	OR	ON	2007/04/26 17:44
L19	2	(object adj description adj language) same pre$processor same (header adj file) and ("717"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:44

EAST Search History

L20	1	adding same extension same fields same class same definition and ("717"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:46
L21	10	(build$4 construct$4 generat$4 creat$4 develop$4) with compiler same extend$4 with (object adj class) and ("717"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:48
L22	3	class near4 extension same compil$4 same processor and ("717"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:49
L23	2	extended near3 software same processor same class and ("717"/$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:50

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■

1 <u>Adding type parameterization to the Java language</u>
Ole Agesen, Stephen N. Freund, John C. Mitchell
October 1997 **ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '97**, Volume 32 Issue 10
Publisher: ACM Press

Full text available: 🔲 pdf(2.16 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Although the Java programming language has achieved widespread acceptance, one feature that seems sorely missed is the ability to use type parameters (as in Ada generics, C++ templates, and ML polymorphic functions or data types) to allow a general concept to be instantiated to one or more specific types. In this paper, we propose parameterized classes and interfaces in which the type parameter may be constrained to either implement a given interface or extend a given class. This design allows t ...

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2 <u>Game rendering: a material editor for the object-oriented game rendering engine</u>
Thong Chee Wai Benjamin, Edmond C. Prakash
December 2006 **Proceedings of the 2006 international conference on Game research and development CyberGames '06**
Publisher: Murdoch University

Full text available: 🔲 pdf(626.76 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

The Object-oriented Graphics Rendering Engine (OGRE) is a popular open sourced 3D Engine. It is purely a rendering engine and does not provide for other functionalities such as networking or sound. OGRE features a powerful material system which is similar to that of the DirectX Effects Framework. However it suffers from the lack of a GUI to both *specify and edit* material scripts which deem it cumbersome to use. This project addresses the issue by designing and implementing an innovativ ...

■

3 <u>Technical correspondence: Parametric polymorphism for Java: is there any hope in sight?</u>
Brian Cabana, Suad Alagić, Jeff Faulkner
December 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 12
Publisher: ACM Press
Full text available: 🔲 pdf(1.60 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

In spite of years of research toward a solution for the problem of extending Java with parametric polymorphism (genericity) the officially accepted solution already in its beta release allows violation of the Java type system and turns a type safe language into an unsafe one. The run-time type information in this release is incorrect which leads to major problems for the programmers relying on the Java reflective capabilities. We show that

there are two basic reasons for these problems. The firs ...

Keywords: Java core reflection, Java virtual machine, class files, class objects, generics, loading, parametric polymorphism

4 Access control with IBM Tivoli access manager
   Günter Karjoth
   May 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6
   Issue 2
   Publisher: ACM Press

   Full text available: pdf(367.07 KB)   Additional Information: full citation, abstract, references, citings, index terms

   Web presence has become a key consideration for the majority of companies and other organizations. Besides being an essential information delivery tool, the Web is increasingly being regarded as an extension of the organization itself, directly integrated with its operating processes. As this transformation takes place, security grows in importance. IBM Tivoli Access Manager offers a shared infrastructure for authentication and access management, technologies that have begun to emerge in the com ...

   Keywords: Access control, WWW security, Web servers, authorization management

5 Extending Apache Axis for monitoring of Web Service Offerings
   Wei Ma, Vladimir Tosic, Babak Esfandiari, Bernard Pagurek
   March 2005 **Proceedings of the IEEE EEE05 international workshop on Business services networks BSN '05**
   Publisher: IEEE Press

   Full text available: pdf(121.03 KB)   Additional Information: full citation, abstract, references

   The Web Service Offerings Infrastructure (WSOI) is a monitoring and management infrastructure for the Web Service Offerings Language (WSOL). It extends Apache Axis, an open-source tool for hosting Web Services. We present technical details of several WSOI solutions for monitoring of Web Services: To pass management information between management parties, we built WSOI serializer and WSOI deserializer modules converting data between formats of Axis' MessageContext properties and SOAP headers. To ...

6 Automatic metadata creation: Automatic document metadata extraction using support vector machines
   Hui Han, C. Lee Giles, Eren Manavoglu, Hongyuan Zha, Zhenyue Zhang, Edward A. Fox
   May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries JCDL '03**
   Publisher: IEEE Computer Society

   Full text available: pdf(154.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

   Automatic metadata generation provides scalability and usability for digital libraries and their collections. Machine learning methods offer robust and adaptable automatic metadata extraction. We describe a Support Vector Machine classification-based method for metadata extraction from header part of research papers and show that it outperforms other machine learning methods on the same task. The method first classifies each line of the header into one or more of 15 classes. An iterative converg ...

7 Algorithm 755: ADOL-C: a package for the automatic differentiation of algorithms written in C/C++
   Andreas Griewank, David Juedes, Jean Utke
   June 1996 **ACM Transactions on Mathematical Software (TOMS)**, Volume 22 Issue 2
   Publisher: ACM Press

Full text available: pdf(494.33 KB)   Additional Information: <u>full citation</u>, <u>appendices and supplements</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

The C++ package ADOL-C described here facilitates the evaluation of first and higher derivatives of vector functions that are defined by computer programs written in C or C++. The resulting derivative evaluation routines may be called from C/C++, Fortran, or any other language that can be linked with C. The numerical values of derivative vectors are obtained free of truncation errors at a small multiple of the run-time and randomly accessed memory of the given function evaluation program. D ...

Keywords: Hessians, Taylor coefficients, automatic differentiation, chain rule, forward mode, gradients, overloading, reverse mode

8 <u>Extendible hashing—a fast access method for dynamic files</u>

Ronald Fagin, Jurg Nievergelt, Nicholas Pippenger, H. Raymond Strong
September 1979 **ACM Transactions on Database Systems (TODS)**, Volume 4 Issue 3
Publisher: ACM Press

Full text available: pdf(2.02 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Extendible hashing is a new access technique, in which the user is guaranteed no more than two page faults to locate the data associated with a given unique identifier, or key. Unlike conventional hashing, extendible hashing has a dynamic structure that grows and shrinks gracefully as the database grows and shrinks. This approach simultaneously solves the problem of making hash tables that are extendible and of making radix search trees that are balanced. We study, by analysis and simulatio ...

Keywords: B-tree, access method, directory, extendible hashing, external hashing, file organization, hashing, index, radix search, searching, trie

9 <u>Using SeSFJava in teaching introductory network courses</u>

Tamer Elsharnouby, A. Udaya Shankar
February 2005 **ACM SIGCSE Bulletin , Proceedings of the 36th SIGCSE technical symposium on Computer science education SIGCSE '05**, Volume 37 Issue 1
Publisher: ACM Press
Full text available: pdf(154.01 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Networking course projects are usually described by an informal specification and a collection of test cases. Students often misunderstand the specification or oversimplify it to fit just the test cases. Using formal methods eliminates these misunderstandings and allows the students to test their projects thoroughly, but at the expense of learning a new language. SeSF (Services and Systems Framework) is one way to overcome this obstacle. In SeSF, both implementations and services are defined by ...

10 <u>A readable TCP in the Prolac protocol language</u>

Eddie Kohler, M. Frans Kaashoek, David R. Montgomery
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '99**, Volume 29 Issue 4
Publisher: ACM Press

Full text available: pdf(1.23 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Prolac is a new statically-typed, object-oriented language for network protocol implementation. It is designed for readability, extensibility, and real-world implementation; most previous protocol languages, in contrast, have been based on hard-to-implement theoretical models and have focused on verification. We present a working Prolac TCP implementation directly derived from 4.4BSD. Our implementation is modular---protocol processing is logically divided into minimally-interacting pieces; read ...

11 <u>An overview of the X toolkit</u>

Joel McCormack, Paul Asente

January 1988 **Proceedings of the 1st annual ACM SIGGRAPH symposium on User Interface Software UIST '88**

Publisher: ACM Press

Full text available: pdf(1.09 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The X11 Window System defines a network protocol [6] for communication between a graphics server and an application. The X library [3] provides a procedural interface to the protocol. The X toolkit [4] is an object-oriented construction kit built on top of the X library. The toolkit is used to write user interface components ("widgets"), to organize a set of widget instances into a complete user interface, and to link a user interface with the functionality provided b ...

12 <u>Extending attribute grammars to support programming-in-the-large</u>

Josephine Micallef, Gail E. Kaiser

September 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 16 Issue 5

Publisher: ACM Press

Full text available: pdf(2.76 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

Attribute grammars add specification of static semantic properties to context-free grammars, which, in turn, describe the syntactic structure of program units. However, context-free grammars cannot express programming-in-the-large features common in modern programming languages, including unordered collections of units, included units, and sharing of included units. We present extensions to context-free grammars, and corresponding extensions to attribute grammars, suitable for defining such ...

Keywords: attribute evaluation, attribute grammars, include files, programming-in-the-large, programming-in-the-many separate compilation, static semantics of programming languages

13 <u>SysObjC: C extension for development of object-oriented operating systems</u>

Ádám Balogh, Zoltán Csörnyei

October 2006 **Proceedings of the 3rd workshop on Programming languages and operating systems: linguistic support for modern operating systems PLOS '06**

Publisher: ACM Press

Full text available: pdf(222.66 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Object-oriented operating systems prefer to consider every data structure as an object. However, data structures predefined by the hardware's manufacturer do not fit into this scheme. First of all, traditional object-oriented languages do not support objects with user-defined representation, which would be needed to these data structures as objects. Secondly, classic object-oriented languages have an overhead unacceptable for operating systems. To overcome both problems we introduce predicate cl ...

Keywords: C, low-level programming, predicate classes, predicate dispatching, system programming

14 <u>The architecture of Montana: an open and extensible programming environment with an incremental C++ compiler</u>

Michael Karasick

November 1998 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th ACM SIGSOFT international symposium on Foundations of software engineering SIGSOFT '98/FSE-6**, Volume 23 Issue 6

Publisher: ACM Press

Full text available: 📄 pdf(1.16 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Montana is an open, extensible integrated programming environment for C++ that supports incremental compilation and linking, a persistent code cache called a CodeStore, and a set of programming interfaces to the CodeStore for tool writers. CodeStore serves as a central source of information for compiling, browsing, and debugging. CodeStore contains information about both the static and dynamic structure of the compiled program. This information spans files, macros, declarations, function bodies, ...

Keywords: C++, conpilation, extensible systems, frameworks, incremental compilation, incremental development environments, programming environments

15 A portable thread API for teaching operating systems
Jeffrey D. Martens
June 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 6
Publisher: Consortium for Computing Sciences in Colleges
Full text available: 📄 pdf(40.40 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

When teaching a course that includes programming assignments, it can be expedient to allow students a choice in programming language and operating systems, e.g. Java or C++, Windows or Linux, etc. In addition to saving classroom time, this allows the student to focus on the problem at hand, as opposed to an unfamiliar environment or language. To support such flexibility in an introductory OS course, I provide C++ programmers with a Java-like thread API and semaphore and pipe classes, all of whic ...

16 C++ in eight weeks
Kailash Chandra
August 1993 **ACM SIGPLAN Notices**, Volume 28 Issue 8
Publisher: ACM Press
Full text available: 📄 pdf(584.92 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

A course on Object-Oriented programming in C++ was taught for the first time in the summer of 1992 at Pittsburg State University in the Computer Science - Information Systems Department. This paper is based on that experience. It presents the course description, the topics covered, the computational environment, the evaluation activities, the programming assignments, the tests given, and the student evaluations. It is found that the course can be successful if many problems are done from the ver ...

17 Centaurus: an infrastructure for service management in ubiquitous computing environments
Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin, Yelena Yesha
November 2002 **Wireless Networks**, Volume 8 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(553.67 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In the near future, we will see dramatic changes in computing and networking hardware. A large number of devices (e.g., phones, PDAs, even small household appliances) will become computationally enabled. Micro/nano sensors will be widely embedded in most engineered artifacts, from the clothes we wear to the roads we drive on. All of these devices will be (wirelessly) networked using Bluetooth, IEEE 802.15 or IEEE 802.11 for short range connectivity creating pervasive environments. In this age wh ...

Keywords: mobile computing, pervasive computing, service management, ubiquitous computing

18
SynRGen: an extensible file reference generator

Maria R. Ebling, M. Satyanarayanan
May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1
Publisher: ACM Press

Full text available: pdf(922.24 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

SynRGen, a synthetic file reference generator operating at the system call level, is capable of modeling a wide variety of usage environments. It achieves realism through trace-inspired micromodels and flexibility by combining these micromodels stochastically. A micromodel is a parameterized piece of code that captures the distinctive signature of an application. We have used SynRGen extensively for stress testing the Coda File System. We have also performed a controlled ex ...

19 Rule-based workflow management for bioinformatics
S. Conery, M. Catchen, Michael Lynch
September 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(428.34 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>

We describe a data-centric software architecture for bioinformatics workflows and a rule-based workflow enactment system that uses declarative specifications of data dependences between steps to automatically order the execution of those steps. A data-centric view allows researchers to develop abstract descriptions of workflow products and provides mechanisms for describing workflow steps as objects. The rule-based approach supports an iterative design methodology for creating new workflows, whe ...

Keywords: Bioinformatics, Rule-based system, Workflow

20 Managing C++ libraries
J. M. Coggins, G. Bollella
June 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 6
Publisher: ACM Press
Full text available: pdf(859.89 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

This paper describes a scheme we have used to manage a large library written in the C++ language. The scheme imposes a directory structure, and represents dependency hierarchy in a globally accessible file we call the 'prelude' file. We also discuss the structure of the description files (makefiles) used with the UNIX options we have found to be useful in reducing the size of the library, and how to minimize recompilation time after trivial changes to the source code of the library.

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1   Document Formatting Systems: Survey, Concepts, and Issues   ■
Richard Furuta, Jeffrey Scofield, Alan Shaw
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3
Publisher: ACM Press
Full text available: 🗎 pdf(5.36 MB)   Additional Information: full citation, references, citings, index terms

2   Adding type parameterization to the Java language   ■
Ole Agesen, Stephen N. Freund, John C. Mitchell
October 1997 **ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '97**, Volume 32 Issue 10
Publisher: ACM Press
Full text available: 🗎 pdf(2.16 MB)   Additional Information: full citation, abstract, references, citings, index terms

Although the Java programming language has achieved widespread acceptance, one feature that seems sorely missed is the ability to use type parameters (as in Ada generics, C++ templates, and ML polymorphic functions or data types) to allow a general concept to be instantiated to one or more specific types. In this paper, we propose parameterized classes and interfaces in which the type parameter may be constrained to either implement a given interface or extend a given class. This design allows t ...

3   Algorithm 817 P2MESH: generic object-oriented interface between 2-D unstructured ■
meshes and FEM/FVM-based PDE solvers
Enrico Bertolazzi, Gianmarco Manzini
March 2002 **ACM Transactions on Mathematical Software (TOMS)**, Volume 28 Issue 1
Publisher: ACM Press
Full text available: 🗎 pdf(259.04 KB)   Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms

The software interface P2MESH is a collection of C++ class templates suitable for developing prototypes of high-performance PDE solvers on unstructured 2-D meshes. P2MESH supports several discretization methods on triangles and quadrilaterals, such as finite volume or finite element. The design philosophy of P2MESH does not consider specific model problems or built-in approximation algorithms. The software package is general purpose and it may also be used as a building block in the implementati ...

Keywords: Finite Element, Finite Volume, Object-Oriented programming, PDE solvers, unstructured mesh

4   Session I: Plugging Haskell in

André Pang, Don Stewart, Sean Seefried, Manuel M. T. Chakravarty

September 2004 **Proceedings of the 2004 ACM SIGPLAN workshop on Haskell Haskell '04**

Publisher: ACM Press

Full text available: ⬛ pdf(153.19 KB)   Additional Information: full citation, abstract, references, citings, index terms

Extension languages enable users to expand the functionality of an application without touching its source code. Commonly, these languages are dynamically typed languages, such as Lisp, Python, or domain-specific languages, which support runtime *plugins* via dynamic loading of components. We show that Haskell can be comfortably used as a statically typed extension language for both Haskell and foreign-language applications supported by the Haskell FFI, and that it can perform type-safe dyn ...

Keywords: dynamic loading, dynamic typing, extension languages, functional programming, plugins, staged type inference

5   Cappuccino — A C++ to Java translator

Frank Buddrus, Jörg Schödel

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**

Publisher: ACM Press

Full text available: ⬛ pdf(534.88 KB)   Additional Information: full citation, references, citings, index terms

6   Mining Software Repositories (MSR): Towards a taxonomy of approaches for mining of source code repositories

Huzefa Kagdi, Michael L. Collard, Jonathan I. Maletic

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 international workshop on Mining software repositories MSR '05**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: ⬛ pdf(102.53 KB)   Additional Information: full citation, abstract, references, index terms

Source code version repositories provide a treasure of information encompassing the changes introduced in the system throughout its evolution. These repositories are typically managed by tools such as CVS. However, these tools identify and express changes in terms of physical attributes i.e., file and line numbers. Recently, to help support the mining of software repositories (MSR), researchers have proposed methods to derive and express changes from source code repositories in a more source-cod ...

Keywords: mining software repositories, survey, taxonomy

7   The Click modular router

Robert Morris, Eddie Kohler, John Jannotti, M. Frans Kaashoek

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: ⬛ pdf(1.46 MB)   Additional Information: full citation, abstract, references, citings, index terms

Click is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called *elements.* Individual elements implement simple router functions like packet classification, queueing, scheduling, and interfacing with network devices. Complete configurations are built by connecting

elements into a graph; packets flow along the graph's edges. Several features make individual elements more powerful and complex configuration ...
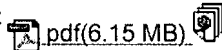
8 The FINITE STRING Newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2
Publisher: MIT Press
Full text available: pdf(6.15 MB) Additional Information: full citation
Publisher Site

9 Translation of Decision Tables
Udo W. Pooch
June 1974 **ACM Computing Surveys (CSUR)**, Volume 6 Issue 2
Publisher: ACM Press
Full text available: pdf(2.10 MB)   Additional Information: full citation, references, citings, index terms

10 TIGS: An overview of the terminal independent graphics system
Robert L. Heilman, Jean M. Marchant
August 1978 **ACM SIGGRAPH Computer Graphics , Proceedings of the 5th annual conference on Computer graphics and interactive techniques SIGGRAPH '78**, Volume 12 Issue 3
Publisher: ACM Press
Full text available: pdf(464.09 KB)   Additional Information: full citation, abstract, references, citings, index terms

TIGS is a general purpose subroutine package providing display generation and interaction capability for a general class of graphics terminals. The package is computer, operating system, and display device independent. Primary design objectives were transportability, maintainability, and ease of use. Features supported by TIGS include line, arc, multi-line plot, test and dot primitives with resettable attributes such as line style, character size, intensity, font, color, transfor ...

Keywords: Device independent graphics, Distributed graphics, Graphics subroutine package, Interactive graphics, Neutral display file, Satellite graphics, Terminal independent graphics

11 A design aids data base for digital components
Daniel J. Sucher, Donald F. Wann
June 1979 **Proceedings of the 16th Conference on Design automation DAC '79**
Publisher: IEEE Press
Full text available: pdf(553.24 KB)   Additional Information: full citation, abstract, citings, index terms

A data base containing pertinent information about the components used in a design is a central part of all digital design aids systems. This paper outlines a data base that has been developed for accomodating a wide variety of integrated circuits (IC's) as well as discrete components. A detailed description of the file structure and access subroutines is included, along with a discussion of the design decisions made during their construction.

12 Applications: A graphical programming system for molecular motif search
Janina Reeder, Robert Giegerich
October 2006 **Proceedings of the 5th international conference on Generative programming and component engineering GPCE '06**
Publisher: ACM Press
Full text available: pdf(1.40 MB)   Additional Information: full citation, abstract, references, index terms

We describe a graphical programming system for a domain specific language in biosequence analysis. It supports the development of programs for RNA structure prediction and motif search, created by biologists with little or no programming skills. The system combines several programming paradigms in a productive way. It has a client - server architecture, with a transport layer in XML. The graphical front-end is implemented in the object-oriented paradigm (using Java). Graphics are compiled into a ...

Keywords: RNA structure, dynamic programming

13   Design principles for software manufacturing tools

Paul Bassett
January 1984 **Proceedings of the 1984 annual conference of the ACM on The fifth generation challenge ACM 84**
Publisher: ACM Press
Full text available: pdf(805.99 KB)   Additional Information: full citation, abstract, references, index terms

A good solution to the reusable code problem turns out to provide a solid technical basis from which to understand and deal with the production, quality, and maintenance issues currently besieging the software industry. To this end, a software manufacturing methodology has been developed called Computer Aided Programming tm. CAP is based on a functional programming concept called a frame, motivated in turn by the reusable code problem. The introduction explains the necessary back ...

14   The treet time sharing system

H. A. Bayard, C. T. Browne, L. N. Gross, E. C. Haines
March 1971 **Proceedings of the second ACM symposium on Symbolic and algebraic manipulation SYMSAC '71**
Publisher: ACM Press
Full text available: pdf(811.56 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper is a description of the TREET time sharing system as it is presently implemented. Information is provided about the basic TREET system, including data structures, basic functions and facilities, languages, the translator, the assembler, the compiler, storage, and data set access; about the time sharing system, its monitor and file structure; about the editing and debugging facilities for on-line programming; and about four application areas—text processing, tree processing, ...

15   Consistency checking within embedded design languages

A. Rudmik, B. E. Casey, H. Cohen
September 1982 **Proceedings of the 6th international conference on Software engineering ICSE '82**
Publisher: IEEE Computer Society Press
Full text available: pdf(841.99 KB)   Additional Information: full citation, abstract, references, index terms

It is difficult to ensure consistency between a program's design and its implementation. An embedded design language (one superimposed on an implementation language) can help. This paper describes a particular embedded design language that was successfully used to design and implement a very large compiling system. This design language has a rich set of constructs for expressing the high-level and detailed designs of a program. It also supports various levels of design and implementation co ...

16   Using AspectJ to separate concerns in parallel scientific Java code

Bruno Harbulot, John R. Gurd
March 2004 **Proceedings of the 3rd international conference on Aspect-oriented software development AOSD '04**
Publisher: ACM Press
Full text available: pdf(1.17 MB)   Additional Information: full citation, abstract, references, citings

Scientific software frequently demands high performance in order to execute complex

models in acceptable time. A major means of obtaining high performance is via parallel execution on multi-processor systems. However, traditional methods of programming for parallel execution can lead to substantial code-tangling where the needs of the mathematical model crosscut with the concern of parallel execution.Aspect-Oriented Programming is an attractive technology for solving the problem of code-tangling ...

17 Components: Application-specific foreign-interface generation

John Reppy, Chunyan Song

October 2006 **Proceedings of the 5th international conference on Generative programming and component engineering GPCE '06**

Publisher: ACM Press

Full text available: pdf(207.28 KB)   Additional Information: full citation, abstract, references, index terms

A *foreign interface* (FI) mechanism to support interoperability with libraries written in other languages (especially C) is an important feature in most high-level language implementations. Such FI mechanisms provide a *Foreign Function Interface* (FFI) for the high-level language to call C functions and marshaling and unmarshaling mechanisms to support conversion between the high-level and C data representations. Often, systems provide tools to automate the generation of FIs, but the ...

Keywords: foreign-interface generation, term rewriting

18 Migrating well engineered Ada 83 applications into newer architecture and reuse based Ada 95 systems: experiences from Boeing's reuse initiative project

Scott Arthur Moody

December 1996 **Proceedings of the conference on TRI-Ada '96: disciplined software development with Ada TRI-Ada '96**

Publisher: ACM Press

Full text available: pdf(1.25 MB)   Additional Information: full citation, references, citings, index terms

19 C-Transformers: a framework to write C program transformations

Alexandre Borghi, Valentin David, Akim Demaille

May 2006 **Crossroads**, Volume 12 Issue 3

Publisher: ACM Press

Full text available: html(56.71 KB) Additional Information: full citation, references, index terms

20 Session B: Computer graphics in education: Experiences in porting a virtual reality system to Java

Shaun Bangay

November 2001 **Proceedings of the 1st international conference on Computer graphics, virtual reality and visualisation AFRIGRAPH '01**

Publisher: ACM Press

Full text available: pdf(527.43 KB)   Additional Information: full citation, abstract, references, index terms

Practical experience in porting a large virtual reality system from C/C++ to Java indicates that porting this type of real-time application is both feasible, and has several merits. The ability to transfer objects in space and time allows useful facilities such as distributed agent support and persistence to be added. Reflection and type comparisons allow flexible manipulations of objects of different types at run-time. Native calls and native code compilation reduce or remove the overhead of in ...

Keywords: Java, native calls, networking, serialization

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Kramer, R.;
Technology of Object-Oriented Languages, 1998. TOOLS 26. Proceedings
3-7 Aug. 1998 Page(s):295 - 307
Digital Object Identifier 10.1109/TOOLS.1998.711021

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☐ 2. **T++: a test case generator using a debugging information based technique for source code manipulation**
Gil, J.; Holstein, B.;
Technology of Object-Oriented Languages and Systems, 1997. TOOLS 23. Proceedings
28 July-1 Aug. 1997 Page(s):272 - 281
Digital Object Identifier 10.1109/TOOLS.1997.654735

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IEEE STD	IEEE Standard

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Juanjuan Jiang; Systa, T.;
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26-28 March 2003 Page(s):389 - 398
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☐ 2. **The Visual Code Navigator: an interactive toolset for source code investigation**
Lommerse, G.; Nossin, F.; Voinea, L.; Telea, A.;
Information Visualization, 2005. INFO VIS 05. Proceedings of the 2005 IEEE Symposium on
23-25 Oct. 2005 Page(s):25 - 32
Digital Object Identifier 10.1109/INFOVIS.2005.33

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Ferrer, M.L.; Fluckiger, F.; Heiman, G.; Valente, E.;
Selected Areas in Communications, IEEE Journal on
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Digital Object Identifier 10.1109/32.286421

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☐ 5. **WebDAV: IEFT standard for collaborative authoring on the Web**
Whitehead, E.J., Jr.; Wiggins, M.;
Internet Computing, IEEE
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Skodras, A.; Christopoulos, C.; Ebrahimi, T.;
Signal Processing Magazine, IEEE
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Crabb, A.H.; Yun Zhou; Rousset, O.G.; Wong, D.F.;
Nuclear Science Symposium Conference Record, 2002 IEEE
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Sucktae Joung; Tanaka, J.;
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10. **Metadata practices for consumer photos**
Tesic, J.;
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12. **WebDAV: versatile collaboration multiprotocol**
Whitehead, J.;
Internet Computing, IEEE
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Taylor, M.D.; Lee, W.; Amarasinghe, S.P.; Agarwal, A.;
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14. **Extracting metadata from JPEG2000 compressed images using Web services**
Marco, A.; Albanesi, M.G.;
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15. **Data management software for minicomputer production monitoring and control systems**
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17. **The Architecture of an Integrated Local Network**
Leach, P.; Levine, P.; Douros, B.; Hamilton, J.; Nelson, D.; Stumpf, B.;
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Lang, S.D.; Manolopoulos, Y.;
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20. **Amoeba: a distributed operating system for the 1990s**
Mullender, S.J.; van Rossum, G.; Tananbaum, A.S.; van Renesse, R.; van Staveren, H.;
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21. **Analyzing the multimedia operating system**
Steinmetz, R.;
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22. **Writing the Web while disconnected**
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23. **A multiuser 3D Web browsing system**
Jiung-Yao Huang; Chao-Tsou Fang-Tsou; Jia-Lin Chang;
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Veldema, R.; Philippsen, M.;
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Digital Object Identifier 10.1109/CLUSTR.2003.1253308

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Hai Jiang; Chaudhary, V.;
Parallel and Distributed Processing Symposium., Proceedings International, IPDPS 2002, Abstracts and CD-ROM
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Ruiz-Sautua, R.; Molina, M.C.; Mendias, J.M.; Hermida, R.;
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Marques, D.; Bronevetsky, G.; Fernandes, R.; Keshav Pingali; Stodghill, P.;
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relationship map, with the corresponding **header file** names on top: ...
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Detector Description Task List & Status ...
Modify DetectorElement **classes** 2. Modify DDROOT **file** conversion service 3. ... Create
C++ **header files** for NOVA data 9. **Extend** DetectorManager API for ...
atlas.web.cern.ch/Atlas/GROUPS/SOFTWARE/
OO/architecture/EventDataModel/DDTaskList.txt - 6k - Cached - Similar pages

Inquiry.com - answers for IT professionals
Normally, you declare a **class** in a dedicated **header file** and define its member functions ...
Use Function Adapters to **Extend** Generic Algorithms' Usage ...
www.devx.com/DevX/LegacyLink/9470 - 36k - Cached - Similar pages

Advanced Skills - Tab-int **extended**: University of Leicester Web Centre
Gives the CSS **class** to be applied to even numbered rows of the results table. ... The **file**
given by **file** sets **header file** which replaces the first part of ...
www.le.ac.uk/webcentre/advancedskills/tab2.html - 18k - Cached - Similar pages

[PPT] Persistency Components in Gaudi
File Format: Microsoft Powerpoint - View as HTML
Extending Classes. Extensions to **classes** are also required by some clients (e.g. ...
Emphasis in the dictionary generation from **header files** using gccxml. ...

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Set	Items	Postings	Description
S1	2969080	20679575	S SOFTWARE?? OR APPLICATION? ?
S2	32260	186254	S S1(3N)DEVELOP????
S3	42450	215869	S COMPIL??? OR COMPILATION
S4	1505	11540	S (JUST()IN()TIME OR JIT)(3N)S3 OR DYNAMIC?(3N)TRANSLAT???
S5	9329	48672	S S1(5N)CLASS??
S6	984539	8831447	S EXTEND??? OR EXTENSION? ?
S7	233546	923550	S S1(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)
S8	2862	9598	S S3(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)
S9	91374	487852	S (PROCESSOR? ? OR OPERATING()SYSTEM? ? OR ENVIRONMENT? ? OR ARCHITECTURE? ? OR PLATFORM? ?)(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)
S10	5	102	S S2(100N)S5(5N)S6(100N)S7(100N)S8(100N)S9
S11	68	282	S S8(5N)(SCENARIO? ? OR CASE? ? OR OPTION? ?)
S12	3	15	S S11(50N)S2
S13	5	35	S S11(100N)S2
S14	5	35	S S13 NOT S10
S15	35	422	S S4(50N)S2
S16	20	334	S S4(100N)S2(100N)S5:S6
S17	19	319	S S16 NOT (S10 OR S14)
S18	13	138	S S17 NOT AD=20030627:20070425/PR

[File 2] **INSPEC** 1898-2007/Apr W3

[File 6] **NTIS** 1964-2007/Apr W4

[File 8] **Ei Compendex(R)** 1884-2007/Apr W3

[File 23] **CSA Technology Research Database** 1963-2007/Apr

[File 34] **SciSearch(R) Cited Ref Sci** 1990-2007/Apr W3

[File 35] **Dissertation Abs Online** 1861-2007/Mar

[File 65] **Inside Conferences** 1993-2007/Apr 24

[File 95] **TEME-Technology & Management** 1989-2007/Apr W4

[File 99] **Wilson Appl. Sci & Tech Abs** 1983-2007/Mar

[File 111] **TGG Natl.Newspaper Index(SM)** 1979-2007/Apr 20

[File 144] **Pascal** 1973-2007/Apr W3

[File 239] **Mathsci** 1940-2007/May

[File 256] **TecInfoSource** 82-2007/Apr

[File 434] **SciSearch(R) Cited Ref Sci** 1974-1989/Dec

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Set	Items	Postings	Description
S1	8776276	14865636	S SOFTWARE?? OR APPLICATION? ?
S2	378107	1015288	S S1(3N)DEVELOP????
S3	222898	395869	S COMPIL??? OR COMPILATION
S4	3082	12477	S (JUST()IN()TIME OR JIT)(3N)S3 OR DYNAMIC?(3N)TRANSLAT???
S5	29737	65519	S S1(5N)CLASS??
S6	2489917	3316602	S EXTEND??? OR EXTENSION? ?
S7	404078	869370	S S1(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)
S8	6692	14382	S S3(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)
S9	178556	416551	S (PROCESSOR? ? OR OPERATING()SYSTEM? ? OR ENVIRONMENT? ? OR ARCHITECTURE? ? OR PLATFORM? ?)(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)

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S10      0      0  S S2 AND S5(5N)S6 AND S7 AND S8 AND S9
S11      4     35  S S2 AND S5(5N)S6 AND S7:S9
S12      4     35  RD (unique items)
S13      0      0  S S2 AND S5(5N)S6 AND S4
S14    116    849  S S2 AND S4
S15     10    128  S S14 AND S7:S8
S16  67983  167938  S (PROCESSOR? ? OR OPERATING()SYSTEM? ? OR ENVIRONMENT? ? OR
ARCHITECTURE? ? OR PLATFORM? ? OR MACHINE? ?)(3N)(INDEPENDENT? OR ADAPT?)
S17      5     57  S S16 AND S14
S18     13    185  S S15 OR S17
S19      9    126  RD (unique items)
S20      9    126  S S19 NOT S12
S21      8    116  S S20 NOT PY=2004:2007
S22   1600   3521  S S3(3N)(SCENARIO? ? OR CASE? ? OR OPTION? ?)
S23     78    425  S (S2 OR S5) AND S22
S24     74    406  S S2 AND S22
S25      1     10  S S24 AND (CLASS?? OR S6)
S26    125    402  S S8(3N)(SCENARIO? ? OR CASE? ? OR OPTION? ?)
S27     17    103  S S26 AND (S9 OR S16)
S28      9     52  RD (unique items)
S29      9     52  S S28 NOT (S12 OR S21 OR S25)
S30      7     42  S S29 NOT PY=2004:2007
```